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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,209	02/11/2004	Yoshiaki Hori	0505-1269P	9980
2592 7590 0627/2008 BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EXAMINER	
			TRAN, DIEM T	
FALLS CHURCH, VA 22040-0747		ART UNIT	PAPER NUMBER	
			3748	
			NOTIFICATION DATE	DELIVERY MODE
			06/27/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Application No. Applicant(s) 10/775,209 HORI ET AL. Office Action Summary Examiner Art Unit DIEM TRAN 3748 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 February 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/08)
 Paper No(s)/Mail Date _______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5 Notice of Informal Patent Application

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DETAILED ACTION

This office action is in response to the amendment filed on 2/20/08. In the amendment, claims 1, 2, 9, 10, 17, 18 have been amended and claims 19-20 have been added. Overall, claims 1-18 are pending in this application.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claims 1, 9 of the amendment filed on 2/20/08, the applicants added the claimed limitation " a water jacket is disposed between the camshaft and the exhaust port", and in claims 17, 18, the applicants added the claimed limitation " said valve is disposed above said main shaft" are considered new matters since the originally filed disclosure does not contain any support for the invention as now claimed.

The amendment filed 2/20/08 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new

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matter into the disclosure of the invention. The added material which is not supported by the original disclosure. Applicant is required to cancel the new matter in the reply to this Office Action.

In order to expedite the prosecution process of this present application, the examiner assumes that applicants will correct and delete the new matter issues. The examiner will examine the previously presented subject matters accordingly in this Office Action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 9, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikenoya et al. (US patent 4,437,305).

Regarding claims 1, 9, Ikenoya discloses an exhaust gas purifying device for a four-cycle engine having a secondary air supply passage (8) for supplying secondary air to an exhaust port and a valve for opening and closing the secondary air supply passage with exhaust pulsations, comprising a longitudinal axis of said exhaust port is parallel to said longitudinal axis of camshaft in a plan view of the engine, wherein said exhaust port is formed with a cylinder head, said camshaft is disposed on a side of said exhaust port and supported by said cylinder head (see Figures 1, 2), and said valve (L) is disposed on a front side of the engine which is perpendicular

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to said camshaft (not numbered but clearly shown in Figure 2); however, fails to disclose that said valve is disposed on a left or right side of the engine.

Even though Ikenoya discloses that the valve is disposed on the front side of engine but the valve is free from interference with a camshaft actuating device (see Figure 2). It would have obvious for one having ordinary skill in the art to put secondary air valve on a side either a left or right side of the engine, since the use thereof would have been a matter of design choice which would have also provided a compact engine for use in a motorcycle.

Regarding claims 3, 11, lkenoya further discloses that the secondary air supply passage includes a substantially vertical hole and a substantially horizontal hole disposed in a cylinder block for communicating with the exhaust port (see Figure 2).

Claims 2, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikenoya et al. (US patent 4,437,305) in view of design choice.

The modified Ikenoya device discloses all the claimed limitations as discussed in claims 1, 9 above, however, fails to disclose that a pipe for supplying the secondary air extends substantially horizontally from the valve to an air cleaner. With regard to the limitation directed to the horizontal arrangement of the secondary air pipe, it is the examiners position that the such would have been an obvious matter of design choice well within the level of ordinary skill in the art depending on design variables such as spacing availability in the surrounding area of the valve etc.. Moreover, there is nothing in the record which establishes that the claimed ranges present a novel or unexpected result (see In re Kuhle, 526 F.2d 553, 188 USPO 7(CCPA 1975)).

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Claims 4-8, 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikenoya et al. (US Patent 4,437,305) in view of Hori et al. (US Patent 6,311,483).

Regarding claims 4, 12, the modified Ikenoya device discloses all the claimed limitations as discussed in claims 3, 9 above, however, fails to disclose that the secondary air supply passage includes a substantially vertical hole and a substantially horizontal hole disposed in a cylinder head for communicating with the exhaust port. Hori teaches that a secondary air supply passage (110) includes a substantially vertical hole (112) and a substantially horizontal hole (111) disposed in a cylinder head for communicating with the exhaust port (see Figure 10).

It would have been obvious to one having ordinary skill in the art, to have utilized the teaching of Hori in the modified device of Ikenoya, since the use thereof would have been conventional in the art.

Regarding claims 5, 13, Ikenoya further discloses that said cylinder head (2) is mounted on said cylinder block (1) and said substantially vertical hole and the substantially horizontal hole disposed in the cylinder block and the cylinder head are in communication with each other and with the exhaust port (see Figure 2).

Regarding claims 6, 14, Ikenoya further discloses that a secondary air supply conduit operatively connected to an air cleaner (8) and said substantially vertical hole and the substantially horizontal hole disposed in the cylinder block and the cylinder head for communicating air to the exhaust port (see Figure 2).

Regarding claims 7, 15, Ikenoya further discloses that said valve is a reed valve (L) operatively positioned relative to the substantially vertical hole and a substantially horizontal

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hole disposed in the cylinder block and the cylinder head for selectively permitting communication between the secondary air supply conduit and the exhaust port (6) (see Figure 2).

Regarding claim 8, Ikenoya further discloses that said reed valve (L) is disposed relative to the substantially horizontal hole disposed in the cylinder block (see Figure 2).

Regarding claim 16, Ikenoya further discloses that said reed valve (L) is disposed relative to the substantially horizontal hole disposed in the cylinder block (1) (see Figure 2).

Claims 19, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikenoya et al. (US patent 4,437,305) in view of Brubaker (US Patent 2,069,749).

Regarding claims 19, 20, the modified Ikenoya device discloses all the claimed limitations as discussed in claims 1, 9 above, however, fails to disclose that a thermostat housing is disposed on the front surface of the cylinder head. Brubaker teaches that a thermostat (4) is disposed on the front surface of the cylinder head (3)(see Figure 1).

It would have been obvious to one having ordinary skill in the art, to have utilized the teaching of Brubaker in the modified device of Ikenoya, since the use thereof would have provided an effective means to control the flow of coolant to the cylinder head and cylinder block.

Response to Arguments

Applicant's arguments filed on 2/20/08 have been fully considered but they are moot in view of a new ground(s) of rejection.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication from the examiner should be directed to Examiner Diem Tran whose telephone number is (571) 272-4866. The examiner can normally be reached on Monday -Friday from 8:00 a.m.- 6:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (571) 272-4859. The fax number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

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free).

/Diem Tran/

Patent Examiner

/Thomas E. Denion/

Supervisory Patent Examiner, Art Unit 3748